



# 2024 CRC CONFERENCE

## CALL FOR SESSION PROPOSALS – NOW OPEN

The deadline to submit a  
session proposal for the 2024  
Cannabis Research Conference  
is  
**February 23, 2024.**

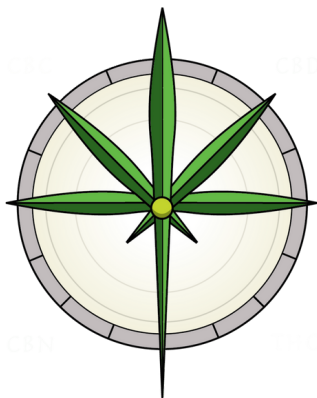
For complete details and to  
submit a Proposal, visit  
[www.cannabisresearchconference.net/session-proposal](http://www.cannabisresearchconference.net/session-proposal)

### This Issue

- 2024 CRC Conference Session Proposals
- LOI Information
- JCR Highlights – Recently published articles
- Items of Interest: Cannabis Research Optimization Program

#### Upcoming Webinars:

- Cannabis Research – Dr. Andrea Hohmann, Feb 8th, 1:00pm MT
- Cannabis Cultivation – Dr. Shelby Ellison Feb 21, 11:00am MT
- A Deeper Look at Hemp – Dr. Eunsoo Kim



8th Annual  
**CANNABIS  
RESEARCH  
CONFERENCE**

**AUGUST 7-9, 2024**  
FORT COLLINS, COLORADO  
COLORADO STATE UNIVERSITY

HOSTED BY



Scan for more  
information about the ICR

# ICR FUNDING OPPORTUNITY

## ICR Cannabis Research Funding Opportunity for 2024

Interested parties should review the full RFA here: ([RFA 24](#)). This is the fourth year the Institute of Cannabis Research has offered this award, where over the last 3 years, there have been 20 awards distributed. The first step in applying for funding as a future applicant requires a submission of the [Letter of Intent \(LOI\)](#) through InfoReady. The LOI is due on January 19, 2024, at 12pm (MST). After a review of the submitted LOIs, a review process will begin and the applicants who have been accepted for the next step will be contacted about the RFA application process. This will be the final step for those who have applied for this award cycle. The review will begin on February 6, 2024, at 12am (MST) and the submission of the application will be due on March 22, 2024, at 12pm (MST). The ICR is anticipating the announcement of new awardees for the next funding cycle in the first part of June 2024. For any [first-time applicants](#), please go to InfoReady for instructions. The ICR's vision is to support the advancement of knowledge and understanding of cannabis, broadly defined, by supporting unbiased, high-quality research. For any LOI or RFA 24 related questions please contact us at [icr@csupueblo.edu](mailto:icr@csupueblo.edu).

### Who is Eligible for this RFA?

- Any Colorado Institution of Higher Education and Any Research Entity Associated with Such Institutions
- Any Not-For-Profit Colorado Based Research Entity
- Any Research Entity that has a Marijuana Research and Development License (pursuant to section 44-II-408) and is Conducting the Research with a Colorado Institution of Higher Education

### Key Dates

- **Letter of Intent Due Date: January 19, 2024 by 12 PM (MST)**
- **Application Due Date: March 22, 2024 by 12 PM (MST).** Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the deadline.
- **Anticipated Award Notice Date: June 2024**
- **Anticipated Project Start Date: By September 1, 2024**





# JOURNAL OF CANNIBIS RESEARCH



## Journal of Cannabis Research

The Journal of Cannabis Research (JCR) is the official publication the Institute of Cannabis Research. It is the only broadly multidisciplinary journal of cannabis research, encompassing not only clinical and scientific research, but also research into social, business, economic, legal, environmental, and ethical impacts of cannabis use and the changing legal status of cannabis. To learn more about the aims and scope of the journal as well as submission guidelines, please visit:

### [Journal of Cannabis Research](#)

Please see two recent article here:

- [Cannabis use for exercise recovery in trained individuals: a survey study](#)
- [Correction: Potency and safety analysis of hemp delta-9 products: the hemp vs. cannabis demarcation problem](#)



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# OPPORTUNITIES OF INTEREST

## Colorado Energy Office (CEO), Cannabis Resource Optimization Program (CROP)



### COLORADO Energy Office

The Colorado Energy Office (CEO) is excited to offer the first in the nation low interest rate financing program for Colorado's cannabis cultivation businesses. The Cannabis Resource Optimization Program (CROP) was created by SB 22-193 to promote energy efficiency upgrades in the Colorado cannabis industry. The application is a rolling application and is open until June 30, 2024 or until 20 applications have been accepted. Please reach out to [CROPfinancing@state.co.us](mailto:CROPfinancing@state.co.us) with any questions.

In order to be considered for CROP Financing, there are minimum requirements that must be met.

- 700+ combined Beacon for owner(s) that are 10%+ owners
- 5+ years of being in business
- Personal Guarantee(s) from owner(s)
- Equipment installations must be completed by a licensed contractor
- Facility with a minimum combined monthly electric and gas utility bill of \$5,000
- Facility that has received an Energy Assessment Report from their utility provider

If the cultivation facility is located outside of Xcel Energy, Black Hills Energy, or Platte River Power Authority, it is required to submit an application for the CROP technical assistance portion of the program. Participants will have access to financing after receiving an energy assessment through CROP. Please reach out to [ceoCROP@resource-innovations.com](mailto:ceoCROP@resource-innovations.com) with any questions





# UPCOMING WEBINARS



**Institute of Cannabis Research**  
at Colorado State University Pueblo

**Cannabis  
Research  
Webinar  
Series**



**Jefferson**  
Thomas Jefferson University

**Lambert Center for  
the Study of Medicinal  
Cannabis & Hemp**

**January Webinar: The ICR and Lambert Center were pleased to host Cassie Moore, PhD, for the webinar on Jan 11 at 1:00PM MST**

**Title: “Preclinical assessment of cannabinoid-based medications for treatment of multidimensional opioid withdrawal”**



**Cassie Moore, PhD**

Cassie Moore, PhD is an Assistant Professor in the Division of Behavioral Biology at the Johns Hopkins University School of Medicine. Her research uses animal models to explore the balance between potential benefits and consequences of cannabinoid-based medications. Recent projects have been focused on the treatment of opioid withdrawal by cannabinoids and novel compounds targeting the endocannabinoid system. Other ongoing projects in the lab are assessing the effects of vaped or orally administered cannabinoids (e.g.,  $\Delta^9$ -tetrahydrocannabinol (THC), cannabidiol (CBD)) and terpenes (e.g., alpha-pinene, limonene) on behaviors including reward, attention, and anxiety-like behavior.

**If you missed this webinar, you can find this and all previous webinars hosted on the [ICR Webpage](#)!**

**February Webinar: The ICR and Lambert Center are pleased to host Dr. Andrea Hohmann for the webinar on February 8th 1:00PM MST [Register Here](#):**

**Title: “The therapeutic promise of non-addicting cannabinoid analgesics”**

Andrea G. Hohmann is a Linda and Jack Gill Chair of Biomolecular Science and Professor of Psychological and Brain Sciences at Indiana University Bloomington. Dr. Hohmann received her Ph.D. from Brown University and completed postdoctoral training at NIMH and NIDCR in functional neuroanatomy and pain and neurosensory mechanisms. Her research exploits novel mechanisms for suppressing pain with an emphasis on targeting the endocannabinoid signaling system for therapeutic benefit. She is a recipient of the Young Investigator Award from the International Cannabinoid Research Society (ICRS), a Lilly Presidential Life Science Professorship and the Ester Fride Award from the International Association for Cannabinoid Medicines (IACM) for major contributions to cannabinoid basic research. She is an elected fellow of the American Association for the Advancement of Science



**Dr. Andrea Hohmann**

# UPCOMING WEBINARS



**Cannabis Plant Science  
and Cultivation**  
Webinar Series



**February Webinar: The ICR Hemp Farmers Association is pleased to host Dr. Shelby Ellison on February 21 at 11:00AM MST [Registration Here:](#)**

**Title: "American Feral Hemp Germplasm Collection and Characterization"**

Dr. Shelby Ellison is an Assistant Professor in the Department of Plant and Agroecosystem Sciences at the University of Wisconsin – Madison. She received a B.S. at UW-Madison, a Ph.D. in Genetics at UC-Davis and was an NSF Postdoctoral Fellow at UW-Madison. Her research interests include preserving, characterizing, and utilizing genetic diversity in alternative crops to meet the needs of farmers while considering environmental implications. She is also interested in how human interactions with plants, through domestication and breeding, have altered the plant genome and how we can use these selection signatures to trace domestication and improvement throughout history. Dr. Ellison is leading a nationwide effort to collect feral hemp germplasm to help rebuild the new US hemp seedbank.



**Dr. Shelby Ellison**

## A DEEPER LOOK AT HEMP

### Morphology of the Cannabis Leaf

**Dr. Eunsoo Kim**

Surface view of the lower epidermis of a *Cannabis sativa* leaf, taken with a scanning electron microscope. Two glandular trichomes (GT) and numerous non-glandular trichomes (NT) can be seen. Also visible are many stomata (S) between them.

